

MRF OPTIMIZATION & EFFICIENCY



Reclay StewardEdge

MRF

EFFICIENCY & OPTIMIZATION



With a changing mix of recyclables, higher operating costs, and increasing end-market pressures, MRF managers need ways to assess their effectiveness in order to move beyond these challenges. Reclay StewardEdge (RSE) have the experts to work with you to assess your facility's capabilities and identify actions to optimize your operations.

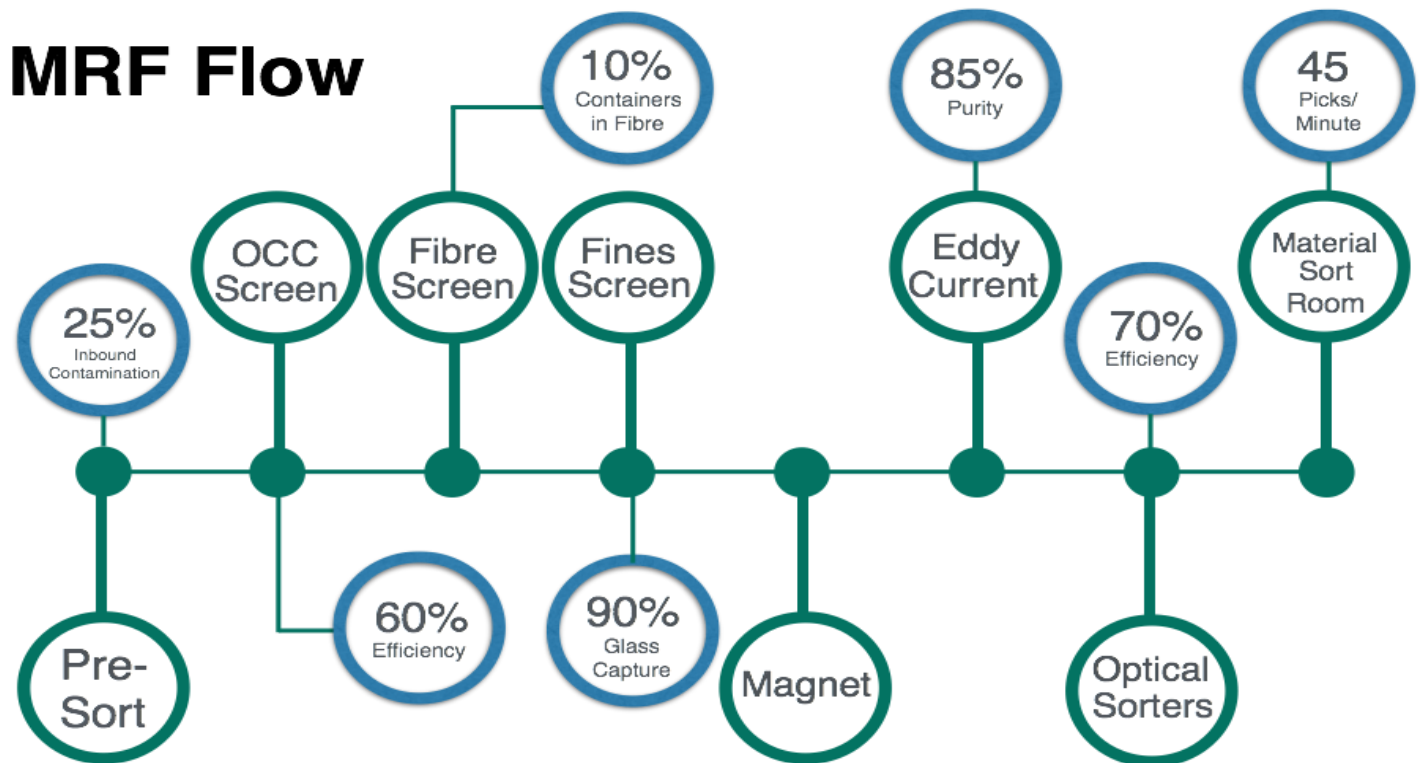
We take the guesswork out of facility improvement. Below are benefits of RSE MRF optimization.

- Greater Recovery of Valuable Recyclables
- Increase in Productivity
- Greater Marketability of Recyclables
- Lower Maintenance Costs & System Downtime
- Reduced Contract & Operational Risks

Cost reductions from 10% to 30% & additional revenues from 20% to 40%

RSE optimization and efficiency services follow a systematic approach:

- Map out a detailed material flow at the MRF and establish baseline performance
- Calculate equipment and sort station efficiencies and material capture rates and composition
- Calculate operational cost of inefficiencies
- Analyze maintenance and downtime records, equipment value and lifespan
- Identify opportunities for optimization including investment options and financial returns.



Case Study: City of Hamilton MRF

Introduction: Dual stream, 45,000 MT/year

Details: Container line experienced loss of valuable recyclables in residue and lower grade streams

Findings:

Plastic film problem (sorters spend over 50% of their time handling film)

Low capture rates for HDPE 81%, Alum 78%, PET 73%

Low efficiency at dual optical 77% for PET, 63% MRP

Increased residue landfilling costs \$80,000

Value of missed recyclables \$700,000

Recommendations Implemented: Alternative form of collection for film, installation of a dedicated PET optical sorter and residue QC for missed recyclables.

Contact Us

To see example optimization reports, please contact us.

For more information about RSE, visit:

www.reclaystewardedge.com

or email us at:

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Suite of Service Lines

RSE offers Sustainability, Circular Economy and Stewardship solutions across your organization’s value chain, from strategy to operations to reporting and impact assessments.

Strategy & Policy

- Sustainability & Circular Strategy
- Regulatory Reviews and Advice
- Materiality & Risk Assessment
- Resource & Waste Management Strategy
- Carbon Reduction Strategy
- Market and Feasibility Studies
- ESG Diligence
- Life Cycle Assessments

Operations & Program Optimization

- Production, process optimization and innovation through resource efficiencies (materials, waste, water, energy/GHG)
- Sustainable procurement and supply chain reviews and management
- GHG offset planning for assets: e.g. Waste Management



Stewardship Services

- Program Design & Implementation
- Program Management
- Data Analytics
- End of Life Program Optimization
- Responsible Stewardship Reporting & Optimization

Reporting & Compliance

- Sustainability Reporting
- GHG Reporting
- Environmental Product Declarations
- Eco-Labeling
- Sustainable ROI Assessments
- Socioeconomic & Environmental Impact Assessments